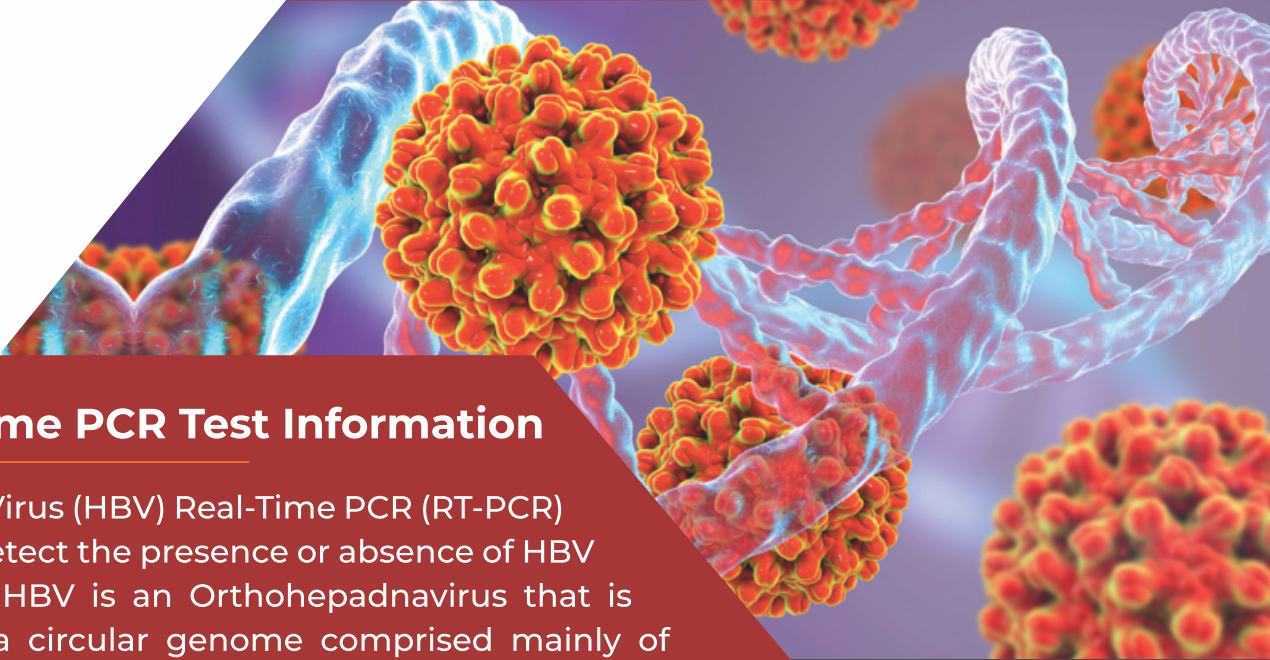




**COSARA**  
DIAGNOSTICS  
PVT. LTD

# SARAGENE™ Hepatitis B Virus Real-Time PCR Test

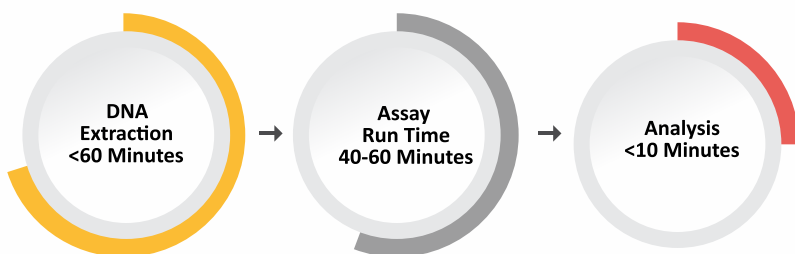


## HBV Real-Time PCR Test Information

The Hepatitis B Virus (HBV) Real-Time PCR (RT-PCR) Test is used to detect the presence or absence of HBV genotypes A-H. HBV is an Orthohepadnavirus that is constructed of a circular genome comprised mainly of DNA. This test is optimized for use on DNA extracted from serum or EDTA plasma samples.

## Results within two hours

The HBV tests can be performed in less than two hours. The test requires a clean, contamination free environment with a hood, centrifuge, pipettes and RT-PCR machine. The test is compatible with most RT-PCR devices with green and orange channels and it can be customized to work with a myriad dyes and PCR technologies.



## HBV RT-PCR KIT

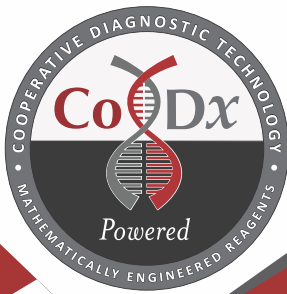
- Compatible with multiple sample types, platforms
- Simple and streamlined work flow
- Includes internal control to verify sample quality
- Includes positive control
- Produces results that are easy to interpret

**IVD**



**Sarabhai Campus,**  
Opp. Ranoli Railway Station,  
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Sensitive, Fast and Affordable Molecular Diagnostics  
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# SARAGENE™ Hepatitis B Virus Real-Time PCR Test Specifications

## About CoDx™ Technology

The HBV kit is developed using a revolutionary molecular diagnostics technology called CoPrimers™, a technology invented and patented by Co-Diagnostics, Inc (Utah, USA).

CoDx technology is mathematically engineered to enhance the speed, accuracy and cost-effectiveness of RT-PCR. The technology is based on cooperative theory, a mathematical model developed by Brent Satterfield, Ph.D. This model applies advanced algorithms and bioinformatics to optimize design parameters with analyte targets. In comparison with other technologies, the CoPrimers reduce the formation of primer-dimers, increase specificity and increase ability to multiplex. The Journal of Molecular Diagnostics (March 2014) introduced CoPrimers as a “new class of primer technology that greatly reduces primer-dimer propagation, showing a 2.5 million-fold improvement in reduction of nonspecific amplification.”

Application	Qualitative RT-PCR				
Sample type	EDTA plasma or serum				
Type of detection	Presence or absence of HBV				
Specificity	HBV genotypes A-H				
Limit of Detection	<table border="1"> <thead> <tr> <th>Gene Markers</th> <th>Limit of Detection (copies/μL)</th> </tr> </thead> <tbody> <tr> <td>HBV</td> <td>5</td> </tr> </tbody> </table>	Gene Markers	Limit of Detection (copies/μL)	HBV	5
Gene Markers	Limit of Detection (copies/μL)				
HBV	5				
Thermal cycler compatibility	Most RT-PCR systems with the following channel compatibilities: Green (FAM™) and Orange (CAL Fluor® Red 610)				

## HBV Kit Includes

MM	Master Mix
PC	Positive Control
NC	Negative Control

## Ordering Information

Product Name	Number of Reaction
SARAGENE™ HBV Real-Time PCR KIT	25 Rxs
	50 Rxs
	100 Rxs

\* RT PCR machine available on request

The performance of the HBV RT-PCR Test has been evaluated for precision, accuracy, sensitivity and specificity for relevant HBV genotypes A-H.

**Intended Use:** For the Detection of Hepatitis B Virus (HBV)



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